International Application No . _T/IL2004/000606

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B23K20/06 B21D51/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{B23K} & \mbox{B21D} & \mbox{F25B} & \mbox{F17C} & \mbox{F16J} \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Χ	US 3 528 596 A (M.J. CARLSON) 15 September 1970 (1970-09-15)	1,9, 11-13, 18,20, 21,24
A	column 1, lines 27-29,56-66 column 2, line 37 - column 3, line 38; figures 2,3	3,10,17, 19
X	US 2002/116817 A1 (J.B. HARDESTY ET AL) 29 August 2002 (2002-08-29)	1,2, 9-11,13, 16,18,
Υ	paragraphs '0022!, '0028! - '0033!; figures 1,4 	19,21,24 3,4,14

χ Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.	
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the International filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the International filing date but later than the priority date claimed 	rnational *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone another *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled	
Date of the actual completion of the international search 21 October 2004	Date of mailing of the international search report 27/10/2004	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Jeggy, T	

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C.(Continua Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Calegory	Challon of document, with indication, where appropriate, of the relevant passages	Helevant to Claim No.
Υ	US 6 539 745 B1 (C.G. HARMER ET AL) 1 April 2003 (2003-04-01)	3,4,14
A	abstract; figures 4a-d	5-8,17
Χ	US 6 137 094 A (L. KISTERSKY ET AL) 24 October 2000 (2000-10-24)	21–24
Α	column 4, lines 23-62; figure 3	
Χ	US 6 548 791 B2 (L. KISTERSKY ET AL) 15 April 2003 (2003-04-15)	21-24
Α	column 8, line 44 — column 9, line 10; figures 6-9; example	1
X	US 6 389 697 B1 (R.L. BENOIT ET AL) 21 May 2002 (2002-05-21)	21,24
Y	column 1, line 64 - column 2, line 44	1,4-6,9, 11,13, 15-18,20
	column 4, line 41 - column 5, line 7; figures 2-6	
X	US 5 191 775 A (K. SHIINA ET AL) 9 March 1993 (1993-03-09)	21,24
Υ	cited in the application the whole document	1,4-6,9, 11,13,
		15-18,20
		ľ
l		

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 25

Claim 25 is not written in respect with Rule 6 (2) (a) PCT, as claim 25 makes reference to images representing the joint under an optic microscope. It is not clear (Article 6 PCT) which features are defined in this claim. Therefore, it is not possible to establish a opinion concerning novelty and/or inventive step as it is impossible to clearly distinguish features of the joint from these images.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 25 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Information on patent family members

International Application No

// IL2004/000606

Patent document cited in search report	Publication date	Patent fam member(s	
US 3528596	15-09-1970	US 34174	456 A 24-12-1968
US 2002116817	1 29-08-2002	US 20021001	167 A1 01-08-2002
US 6539745	1 01-04-2003	US 64536	697 B1 24-09-2002
US 6137094	24-10-2000		399 A 17-04-2000 526 A2 06-04-2000
US 6548791	15-08-2002	US 64009 US 20021089 US 20010194	
US 6389697	31 21-05-2002	NONE	
US 5191775	N 09-03-1993		855 U 16-05-1990 251 A1 03-05-1990